

Architect's Stainless Steel Library

FINISH SAMPLES

THE INTERNATIONAL NICKEL COMPANY, INC.

PREPARED IN COOPERATION WITH COMMITTEE OF STAINLESS STEEL PRODUCERS, AMERICAN IRON AND STEEL INSTITUTE

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Architect's Stainless Steel Library

The International Nickel Company, in cooperation with the Committee of Stainless Steel Producers of the American Iron and Steel Institute, is preparing a library of basic stainless steel information. The books will be distributed to selected architectural offices.

Book I. The book now in your hands contains samples of currently available stainless steel standard mechanical and proprietary finishes. Additional pockets are provided to receive new proprietary finish samples as they are developed by the individual producers. Table A, page 2, describes each of six standard finishes. Table B, page 2, lists the stainless steel gauges, decimal equivalents and suggested end uses.

Three volumes besides the present one will be prepared for future distribution:

Book II..... AISI Data Sheets. A series of brochures on various details of stainless steel usage.

Book III..... Specifications. Suggested Guide Specifications on Stainless Steel Products, prepared for the convenience of architects, and specification writers by Ben H. Dyer, AIA-CSI, specifications consultant.

Book IV..... Design Manual. Detail drawings, design suggestions, and information about the design-related characteristics of stainless steel.

Table A
COMMITTEE OF STAINLESS STEEL PRODUCERS
AMERICAN IRON & STEEL INSTITUTE
SHEET FINISH DESIGNATIONS
FOR ARCHITECTURAL STAINLESS STEEL

Unpolished Finish
(Rolled)
No. 2D* †

A dull finish produced by cold rolling to the specified thickness, followed by annealing and descaling. May also be accomplished by a final light roll pass on dull rolls.

Unpolished Finish
(Rolled)
No. 2B* †

A bright finish commonly produced in the same way as No. 2D finish except that the annealed and descaled sheet receives a final light cold roll pass on polished rolls. This is a general purpose cold rolled finish, and is more readily polished than the No. 1 or No. 2D finishes.

Polished Finish
No. 3 †

An intermediate polished finish generally used where a semi-polished surface is required for subsequent finishing operations following fabrication.

Polished Finish
No. 4 †

A general purpose bright polished finish obtained with a 120-150 mesh abrasive, following initial grinding with coarser abrasives.

Polished Finish
No. 6 †

A soft satin finish having lower reflectivity than No. 4 finish. It is produced by Tampico brushing the No. 4 finish in a medium of abrasive and oil.

Polished Finish
No. 7 †

A highly reflective finish produced by buffing a surface which has first been finely ground with abrasives, but "grit" lines are not removed.

* No. 1 and 2 finishes for strip (widths under 24") approximate No. 2D and 2B sheet finishes respectively, in the corresponding alloy types.

Note: For further information and literature about stainless steel contact the Committee of Stainless Steel Producers, AISI, 633 Third Ave., New York 17, N. Y.

† As designated in the Steel Products Manual "Stainless and Heat Resisting Steels," AISI.

Table B
THICKNESS
OF STAINLESS STEEL
USED IN
ARCHITECTURAL APPLICATIONS

U.S. Standard Gauges	Approximate Weights (in pounds per sq. foot)* Black bars indicate edge thickness of Gauges	Nominal Thickness in Inches	END USES †
10	5.906	.141	Monumental ornamental
11	5.250	.125	Elevators and escalators
			Door bumpers
			Thresholds
12	4.594	.109	Cover plates
			Kick plates
			Column covers
14	3.281	.078	Convactor covers
			Large mullions
16	2.625	.063	Unbacked fascia
			Door sections
18	2.100	.050	Light mullions
20	1.575	.038	Window sills
22	1.312	.031	Window framing
24	1.050	.025	Cleats, clips
26	0.787	.019	Louvers, gravel stops, formed and laminated panels
28	0.656	.016	Roofing, exposed flashing
32	0.426	.010	Concealed flashing

**ABOVE STREET
LEVEL
APPLICATIONS**

Curtain walls,
spandrels, mullions,
windows, flashing,
roofing, louvers

**STREET LEVEL
APPLICATIONS**

column covers, fascia
panels, mullions,
pilasters—stiffened
with braces, but not
completely backed
up, doors, kick plates

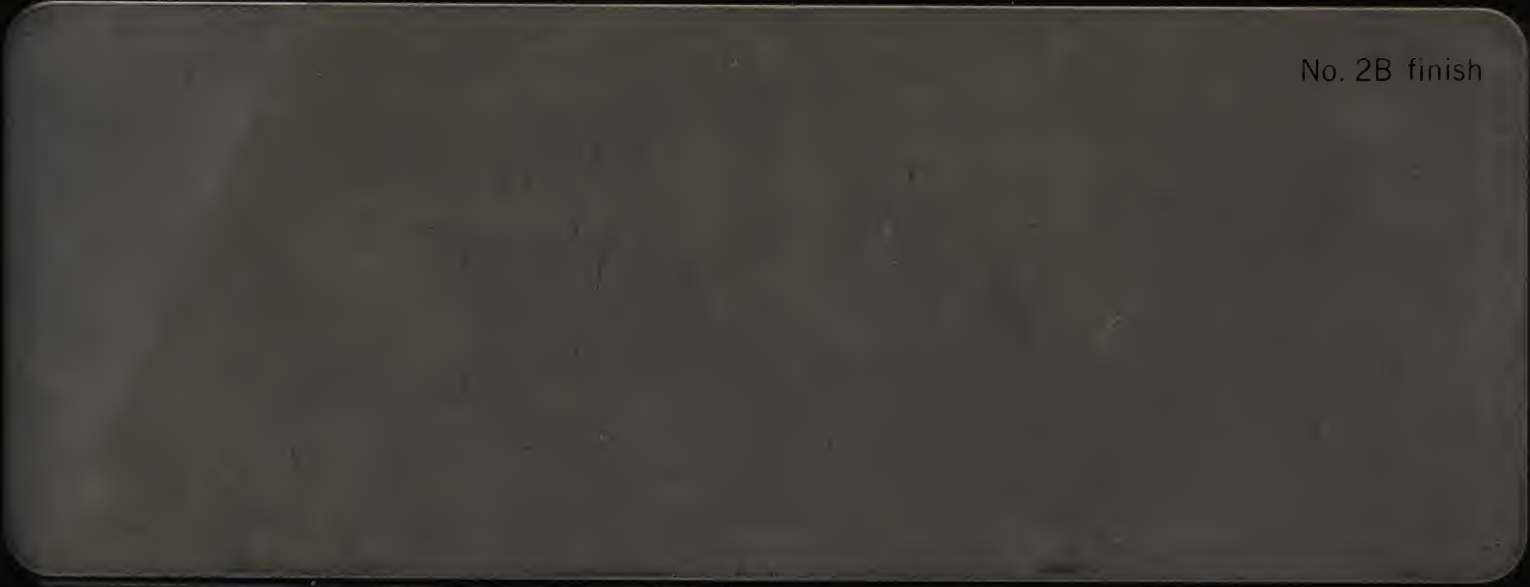
* Type 300 Cr-Ni Series.

† These end uses are listed as a general guide with only approximate relation to gauge thickness. For specific recommendations, consult a fabricator or stainless steel producer.

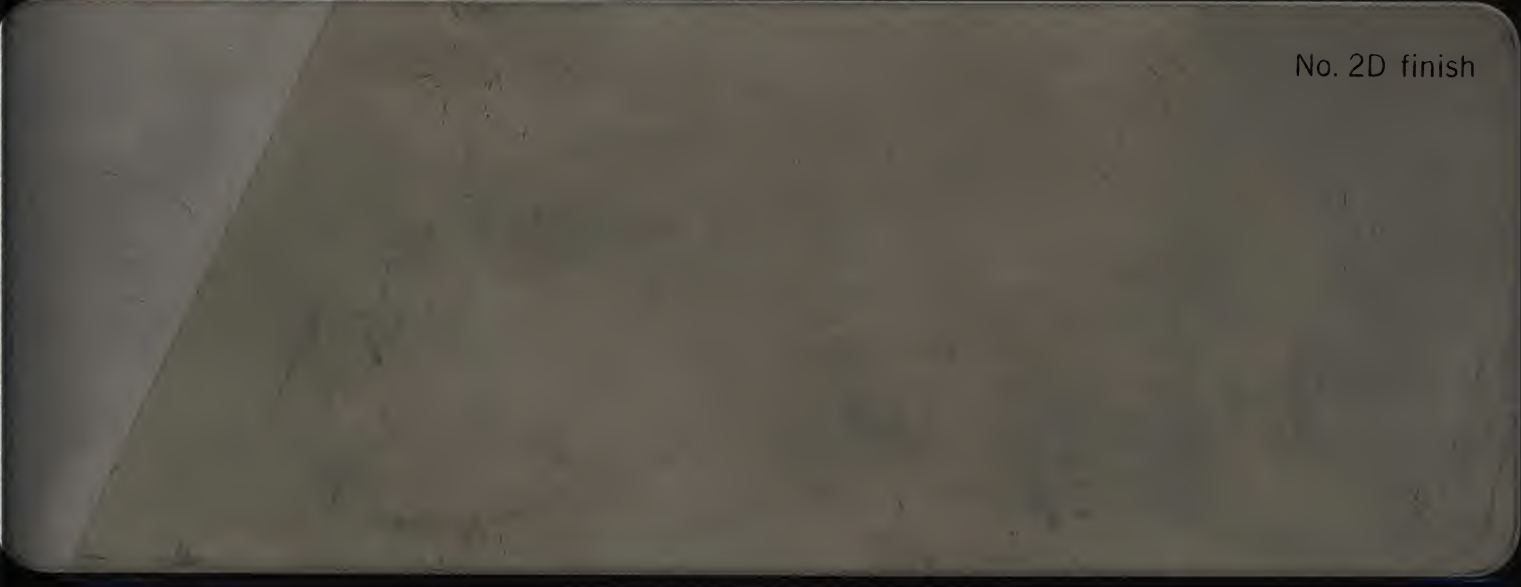
"SOFTONE" finish
Armco Steel Corporation

"NO. 2 RSK" finish
Republic Steel Corporation

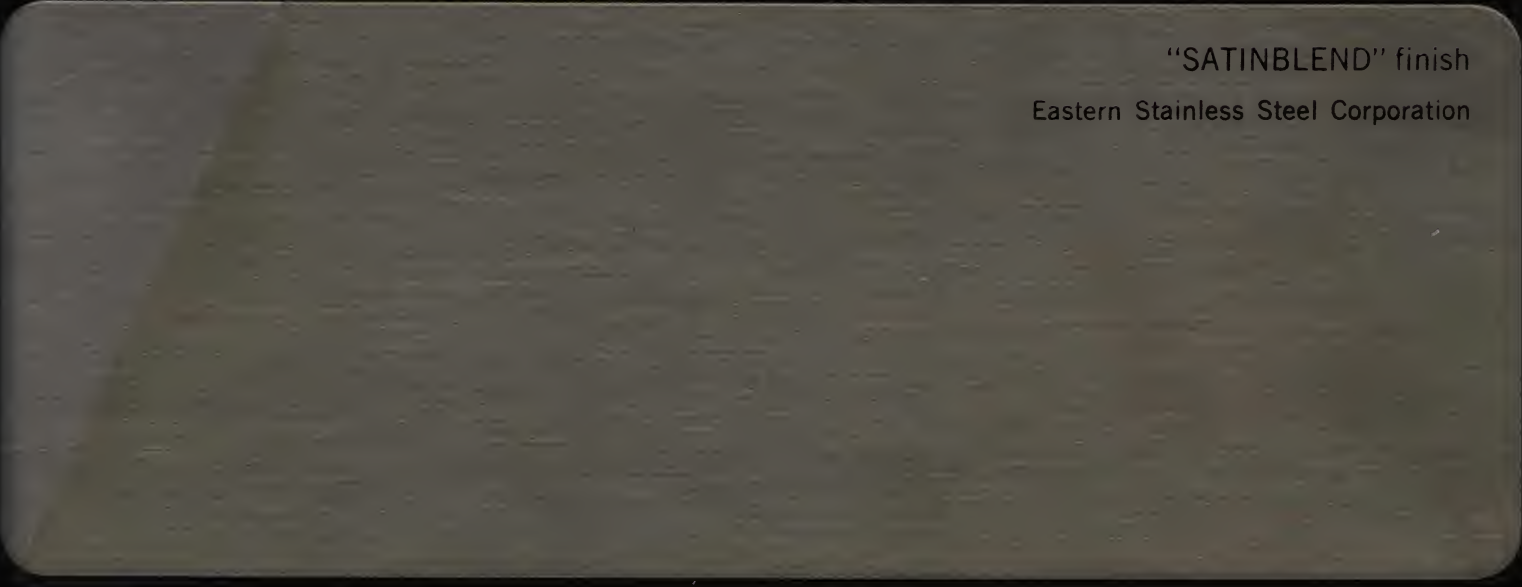
"NO. 2 B-N" finish
Republic Steel Corporation

A rectangular stainless steel plate with a No. 2B finish, showing a uniform, slightly textured surface. The plate is set against a dark background.

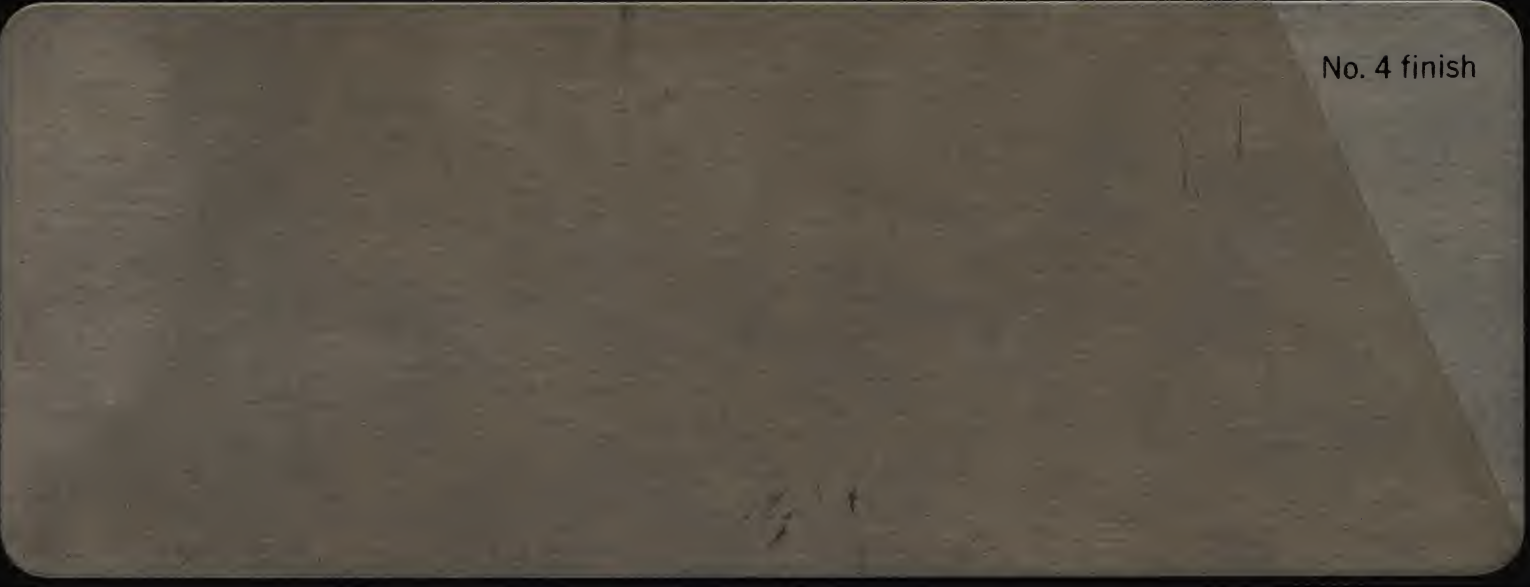
No. 2B finish

A rectangular stainless steel plate with a No. 2D finish, showing a more pronounced texture and some visible surface imperfections. The plate is set against a dark background.

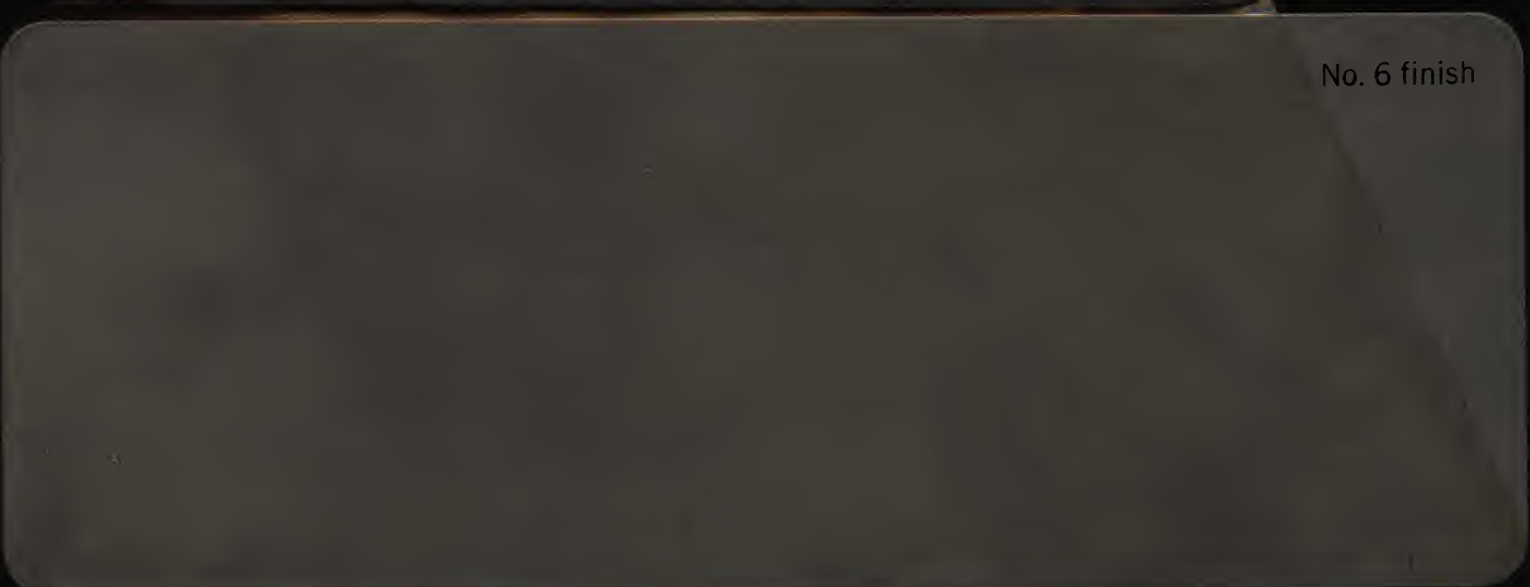
No. 2D finish

A rectangular stainless steel plate with a SATINBLEND finish, showing a fine, uniform texture. The plate is set against a dark background.

"SATINBLEND" finish
Eastern Stainless Steel Corporation



No. 4 finish



No. 6 finish



"GRAIN LINE" finish

Jones & Laughlin Steel Corporation

"SHADOW" finish

Allegheny Ludlum Steel Corporation

No. 7 finish

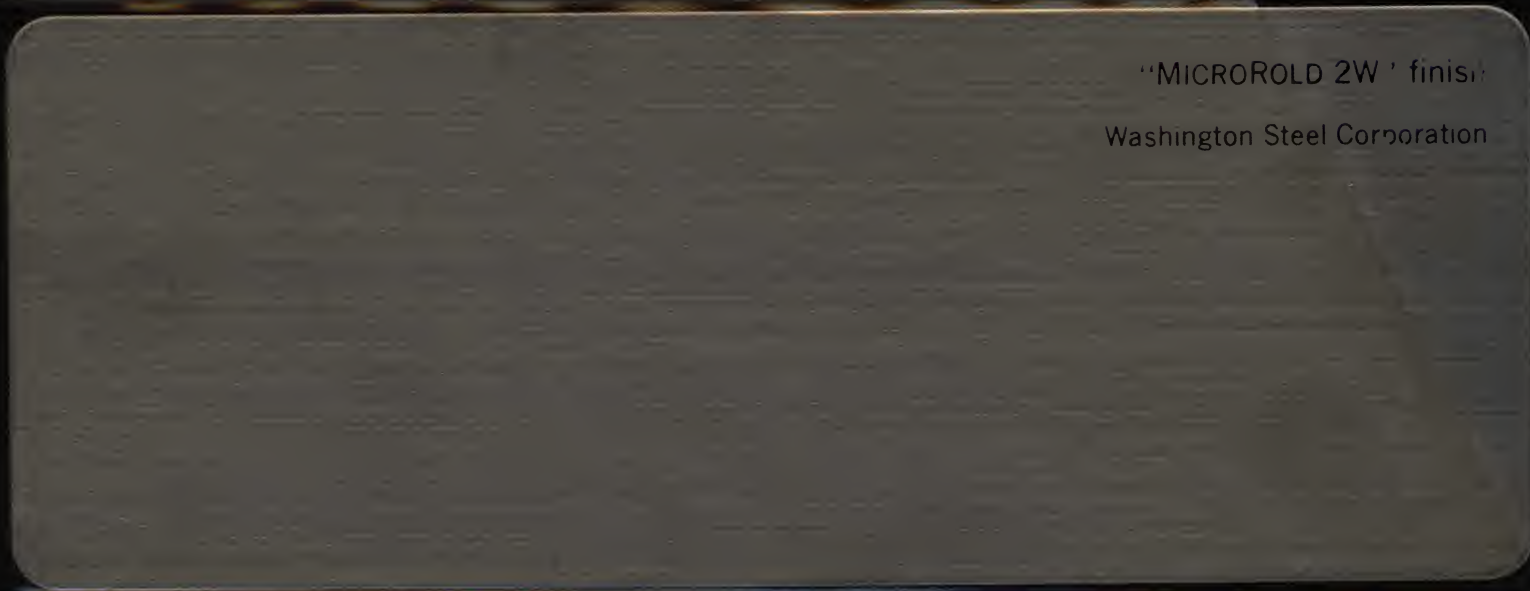
"LUSTERGLO" finish

Armco Steel Corporation



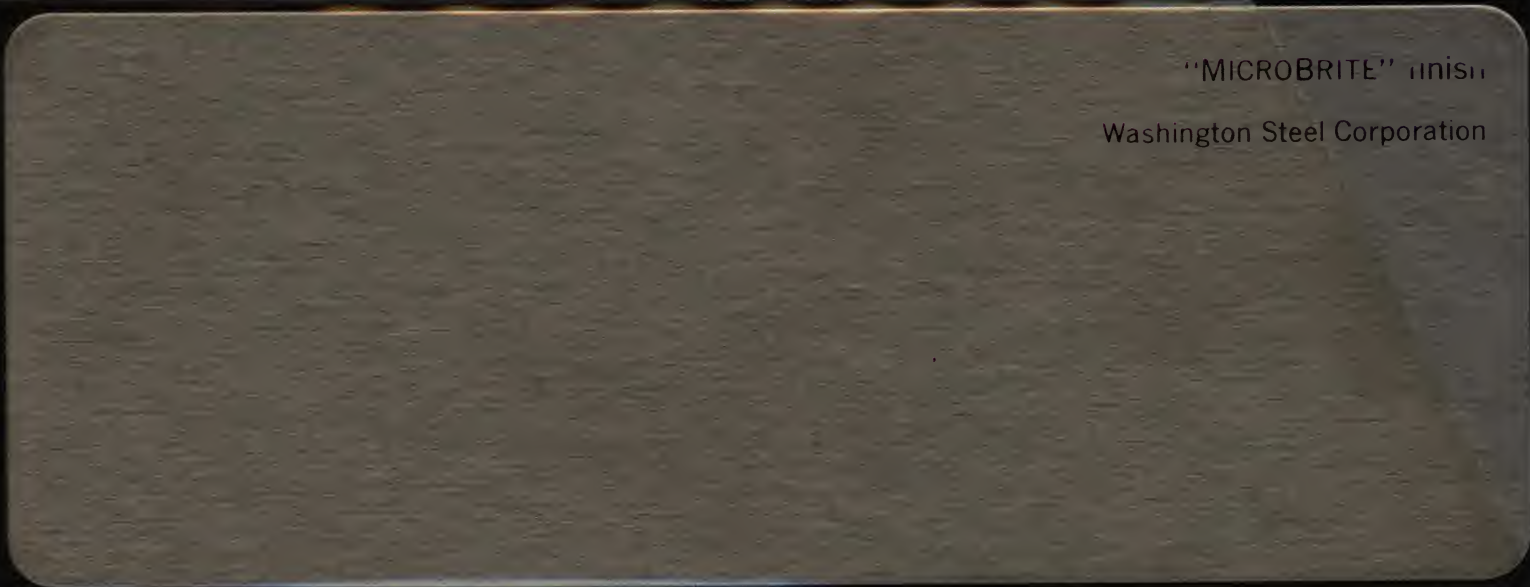
"MICROROLD 2W" finish

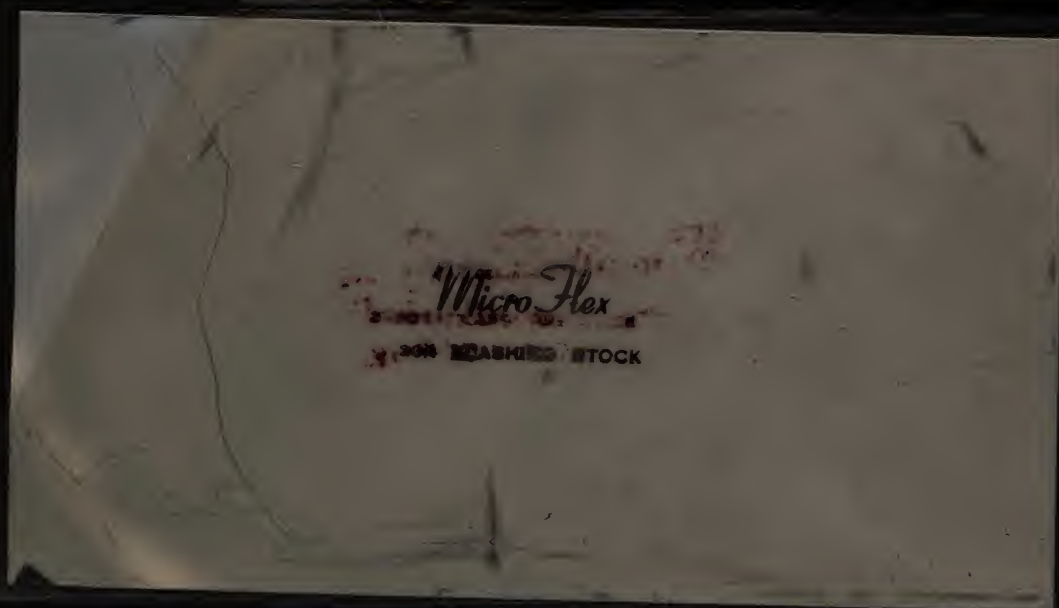
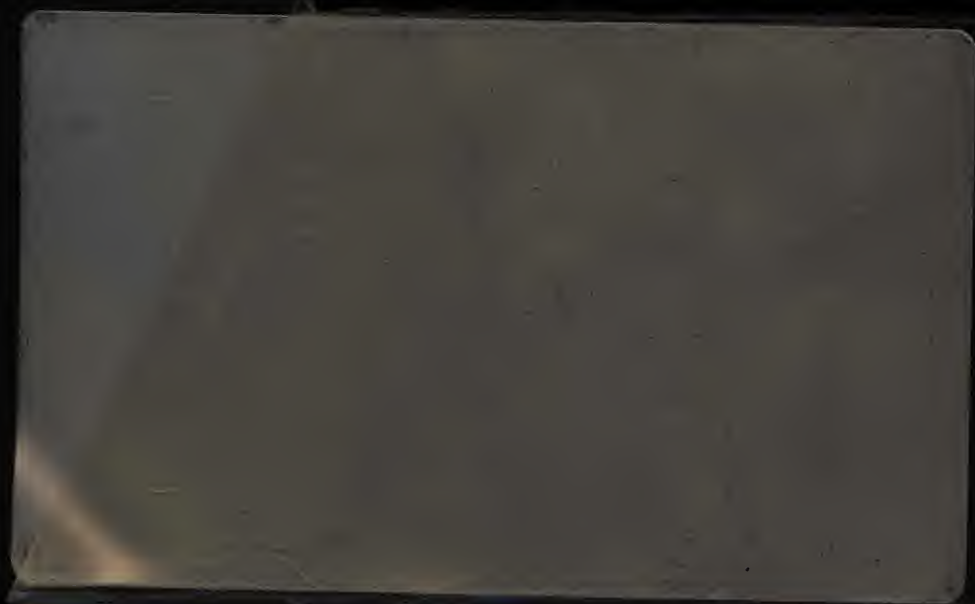
Washington Steel Corporation



"MICROBRITE" finish

Washington Steel Corporation







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